

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-3. (Cancelled)

4. (Currently Amended) A local oscillation signal supply method that is used when received signals, which are received as input by way of a plurality of receivers that are each connected to respective antennas, are demodulated and outputted by a digital signal processor, ~~characterized in that said the method comprising steps of:~~

~~generating frequency data that contain a frequency component; that is to be the local oscillation signal and~~

~~sending said frequency data as a common signal source to each of said plurality of receivers via a signal sequence that corresponds signal sequences that correspond to a wireless channel, the signal source supplied as a digital signal;~~

~~providing a plurality of said signal sequences, each of said signal sequences having different frequency data;~~

~~in each of said receivers, generating local oscillation signals in which phase and amplitude are matched in all of said receivers based on said frequency data that have been received;~~

~~said signal source that is supplied is a digital signal;~~

~~this digital signal is converted in each of said receivers, converting the digital signal to an analog signal based on a clock signal that is common to all of said receivers; to generate a local oscillation signal; and~~

~~a plurality of said signal sequences are provided, each of said signal sequences having different frequency data; and~~

~~in each of said receivers, generating local oscillation signals in which phase and amplitude are matched in all of said receivers based on said analog signal, wherein the~~

frequency data that are received from a plurality of said signal sequences are each subjected to quadrature amplitude modulation to generate respective of the ~~[[a]]~~ local oscillation ~~signal~~ signals having a prescribed frequency.

5. (Currently Amended) A local oscillation signal supply method that is used when received signals, which are received as input by way of a plurality of receivers that are each connected to respective antennas, are demodulated and outputted by a digital signal processor, ~~characterized in that~~ the method comprising steps of:

~~generating frequency data that contain a frequency component; that is to be the local oscillation signal and~~

~~sending said frequency data as a common signal source to each of said plurality of receivers via a signal sequence that corresponds~~ signal sequences that correspond to a wireless channel, the signal source supplied as a digital signal;

providing a plurality of said signal sequences supplying shift data, which correspond to phase advance data for said frequency data, to all of said receivers;

~~in each of said receivers, generating local oscillation signals in which phase and amplitude are matched in all of said receivers based on said frequency data that have been received;~~

~~said signal source that is supplied is a digital signal,~~

~~this digital signal is converted~~ in each of said receivers, converting the digital signal to an analog signal based on a clock signal that is common to all of said receivers; ~~to generate a local oscillation signal,~~

~~a plurality of said signal sequences supply shift data, which correspond to phase advance data for said frequency data, to all of said receivers,~~

in each of said receivers, generating local oscillation signals in which phase and amplitude are matched in all of said receivers based on said analog signal, wherein, in each of said receivers, shift data, in which a prescribed frequency is obtained from each of

said plurality of signal sequences, are selected and subjected to signal conversion,[[;]] and shift data that have undergone selection and conversion and said frequency data are subjected to quadrature modulation to generate respective of the [[a]] local oscillation ~~signal~~ signals having a prescribed frequency.

6-7. (Cancelled)

8. (Currently Amended) A local oscillation signal supply circuit that is used when received signals, which are received as input by a plurality of receivers that are each connected to respective antennas, are demodulated and outputted by a digital signal processor, ~~characterized in that~~ said local oscillation signal supply circuit comprising:

a single frequency data generator that generates frequency data that contain a frequency component ~~that is to be a local oscillation signal~~ and sends these data as a common signal source as digital signals to each of said plurality of receivers by way of a single signal sequence that corresponds to a wireless channel[[,]]; and

~~at each of the receivers, a local oscillation signal generator that generates a local oscillation signal in which phase and amplitude are matched at all of said receivers based on said frequency data that have been received from said frequency data generator, said frequency data generator outputs frequency data by means of digital signal, and~~

~~said a~~ local oscillation signal generator at each of the receivers including:
~~includes~~ a digital/analog converter that converts said digital signals to analog signals based on a clock signal that is common to all of said receivers;[[,]] and
~~said local oscillation signal generator includes~~ a quadrature modulator that performs quadrature modulation of ~~frequency data that are received as input from each of a plurality of said signal sequences~~ said analog signals to generate a local oscillation signal

having a prescribed frequency, in which phase and amplitude are matched at all of said receivers based on said analog signals.

9. (Currently Amended) A local oscillation signal supply circuit that is used when received signals, which are received as input by a plurality of receivers that are each connected to respective antennas, are demodulated and outputted by a digital signal processor, ~~characterized in that~~ said local oscillation signal supply circuit comprising:

a single frequency data generator that generates frequency data that contain a frequency component ~~that is to be a local oscillation signal~~ and sends these data as a common signal source as digital signals to each of said plurality of receivers by way of a single signal sequence that corresponds to a wireless channel[[,]];

a shift data generator that provides a plurality of signal sequences for outputting shift data corresponding to phase advance data for said frequency data, to all of said receivers ; and

~~at each of the receivers, a local oscillation signal generator that generates a local oscillation signal in which phase and amplitude are matched at all of said receivers based on said frequency data that have been received from said frequency data generator, said frequency data generator outputs frequency data by means of digital signals,~~

~~said a~~ local oscillation signal generator at each of the receivers including:

~~includes~~ a digital/analog converter that converts said digital signals to analog signals based on a clock signal that is common to all of said receivers; ~~and~~

~~said frequency data generator is provided with a plurality of said signal sequences for outputting shift data, which correspond to phase advance data for said frequency data, to all of said receivers; and~~

~~said receivers are each provided with:~~

a selector/converter that selects from a signal sequence and signal-converts shift data, from which a desired frequency is obtained from ~~[[a]]~~ the plurality of said signal sequences; and

~~[[an]]~~ a quadrature modulator that performs quadrature modulation of shift data that have undergone selection and conversion and said ~~frequency data~~ analog signal to generate a local oscillation signal having a desired frequency, in which phase and amplitude are matched at all of said receivers based on said analog signals.